

DH-HAC-B1A21-U 2MP IR HDCVI Fixed-focal Bullet Camera



Series Overview

The Cooper Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of Dahua.

Functions

Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

- · Max. 30 fps@1080p.
- · Smart IR Illumination.
- · 30 m illumination distance.
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.



4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Cooper Series | DH-HAC-B1A21-U

Technical Specification							Day/Night	Auto(ICR)/Color/B/W
Camera							BLC	BLC; DWDR
Image Sensor		2 MP CMOS					WDR	DWDR
Max. Resolution		1920 (H) × 1080 (V)					White Balance	Auto
Scanning System		Progressive					Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Noise Reduction	2D NR
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE)					Illumination Mode	Smart IR
		0 lux (Illuminator on)					Certification	
S/N Ratio		>65 dB					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		30 m (98.43 ft)					Port	
Illuminator On/Off Control		Auto/Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator	Number	2 (IR light)					Power	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Power Supply	12 VDC ± 30%
Lens							Power Consumption	Max 2.8 W (12 VDC, IR on)
Lens Type		Fixed-focal					Environment	
Lens Mount		M12					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Operating Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 100°; V: 54°; D: 117°					Storage Humidity	<95% (RH), non-condensing
		3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°					Protection	IP67
Iris Control		Fixed					Anti-corrosion Level	Basic Protection
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.4 m (7.87 ft)					Structure	
							Casing Material	Plastic
	Lens	Detect	Observe	Recognize	Identify		Product Dimensions	146.1mm × 70.0 mm × 69.8mm (5.75" × 2.76" × 2.75")
DORI Distance	2.8 mm	44.7 m (146.65 ft)	17.9 m (58.73 ft)	8.9 m (29.20 ft)	4.5 m (14.76 ft)		Net Weight	0.15 kg (0.33 lb)
	3.6 mm	55.0 m	22.0 m	11.0 m	5.5 m	5.5 m	Gross Weight	0.23 kg (0.51 lb)
	6 mm	(180.45 ft) 102.9 m	(72.18 ft) 41.1 m	(36.09 ft) 20.6 m	(18.04 ft) 10.3 m		Installation	Wall mount; ceiling mount; vertical pole mount
	*DOBI (Datasi	(337.6 ft) (134.84 ft) (67.59 ft) (33.79 ft)						

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool.

Video

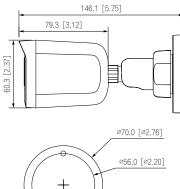
Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)

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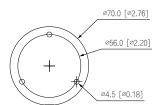
Ordering Information

Туре	Model	Description	
2MP	DH-HAC-B1A21P-U	2MP IR HDCVI Fixed-focal Bullet Camera, PAL	
Camera	DH-HAC-B1A21N-U	2MP IR HDCVI Fixed-focal Bullet Camera, NTSC	
	PFA134	Junction Box	
	PFA130-E	Water-proof Junction Box	
Accessories	PFA152-E	Pole Mount Bracket	
(Optional)	PFM800-E	Passive HDCVI Balun	
	PFM321D	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	

Dimensions (mm[inch])







Accessories

Optional:



PFA134 Junction Box



PFM800-E Passive HDCVI Balun



PFA130-E Water-proof Junction Box



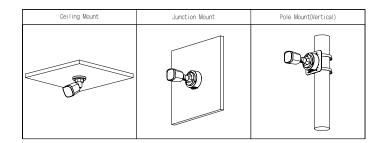
PFM321D 12V 1A Power Adapter







PFM904 Integrated Mount Tester



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